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国产木蓝属新分类群*

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NEW TAXA OF *INDIGOFERA* L. FROM CHINA

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笔者在编写《中国植物志》豆科木蓝属的过程中发现了一些新分类群,现发表如下:

1. **尖瓣木蓝** 新种 图1

Indigofera acutipetala Y. Y. Fang et C. Z. Zheng, sp. nov.

Species *I. hancockii* Craib similis, sed foliolis 5—11, minoribus, 3—7 mm longis, 2—4 mm latis, pedunculo petiolo distincte longiore, calycis lobis lanceolato-subulatis, 1.5 mm longis, vexillo apice rostello 1 mm longo obsito differt.

Frutex circ. 1.3 m altus. Caules teretes, glabri, lenticellis parvis albidis instructi, in sicco atro-brunneo-corticati; ramuli quadrangulati, pilis paucis albidis medifixis adpressis tecti. Folia 5—11-foliolata, circ. 3 cm longa, petiolo 2—6 mm longo; stipulae lineares, 2 mm longae; foliola parva, obovata vel obovato-oblonga, 3—7 mm longa, 2—4 mm lata, apice obtusa breve apiculata, basi cuneata vel late cuneata, utrinque praecipue subtus pilis albidis brunneisque crassiusculis adpressis medifixis dense tecta; nervis lateralibus obscuris vel subopscuris, petiolulis brevissimis, stipellis inconspicuis. Racemi axillares, densi-floriferi, 5—9 cm longi, pedunculo plerumque petiolo distincte longiore, 2—3 cm longo, cum rachidibus ut ramulis glandulis sparsis obsito. Flores atro-purpurei; calycis tubus 1 mm longus, lobis lanceolato-subulatis, 1.5 mm longis, crassiusculis pilis albidis adpressis medifixis vestitis; vexillum 7—7.5 mm longum, 4 mm latum, apice rostello 1 mm longo ositum, extus dense et breve cinereo-sericeum; alae 6 mm longae, 2 mm latae; carinae 6.5 mm longae, in medio brevi-calcarata; antherae ovatae, mucronibus 0.25 mm longis; ovarium glabrum.

Sichuan (四川): Jiulong (九龙), Motian ling (摩天岭), alt. 2400 m, in dumetis montium, T. T. Yu 6725 (Typus, PE).

本种与绢毛木蓝 *I. hancockii* Craib 相似,但小叶为5—11片,较小,长3—7毫米,宽2—4毫米,总花梗明显较叶柄长,萼裂片披针状钻形,长1.5毫米,旗瓣先端有长1毫米的喙,可区别。

2. **稻城木蓝** 新种 图2

Indigofera daochengensis Y. Y. Fang et C. Z. Zheng, sp. nov.

* 本文承王文采、韦直、裘宝林等同志审阅,何冬泉同志绘图,特此致谢。

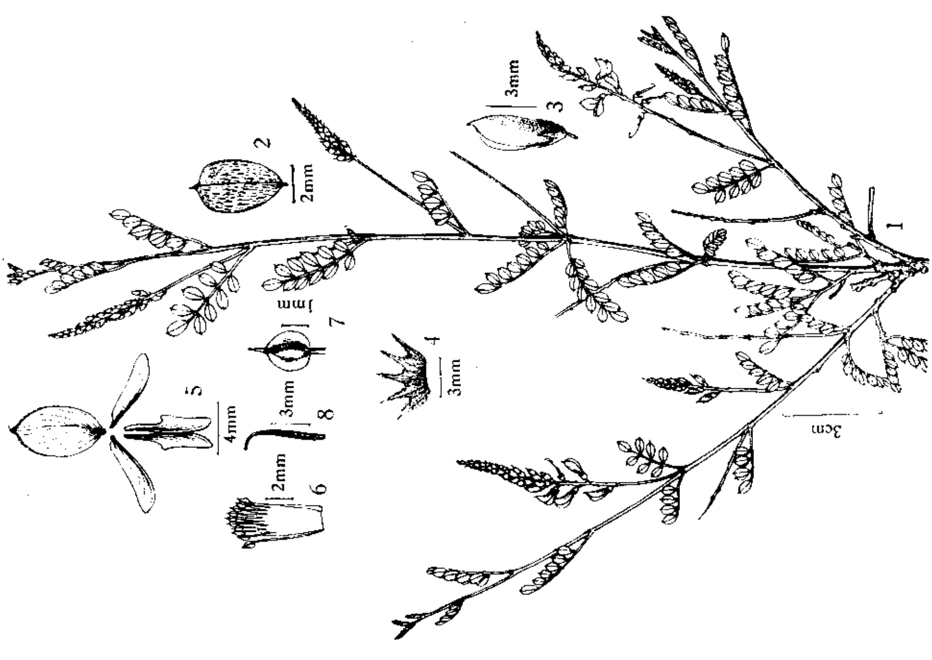


图1 **尖瓣木蓝** *Indigofera acutipetala* Y. Y. Fang et C. Z. Zheng
1.花枝；2.小叶；3.花；4.花萼；5.花瓣；6.雄蕊；7.花药；8.雌蕊。

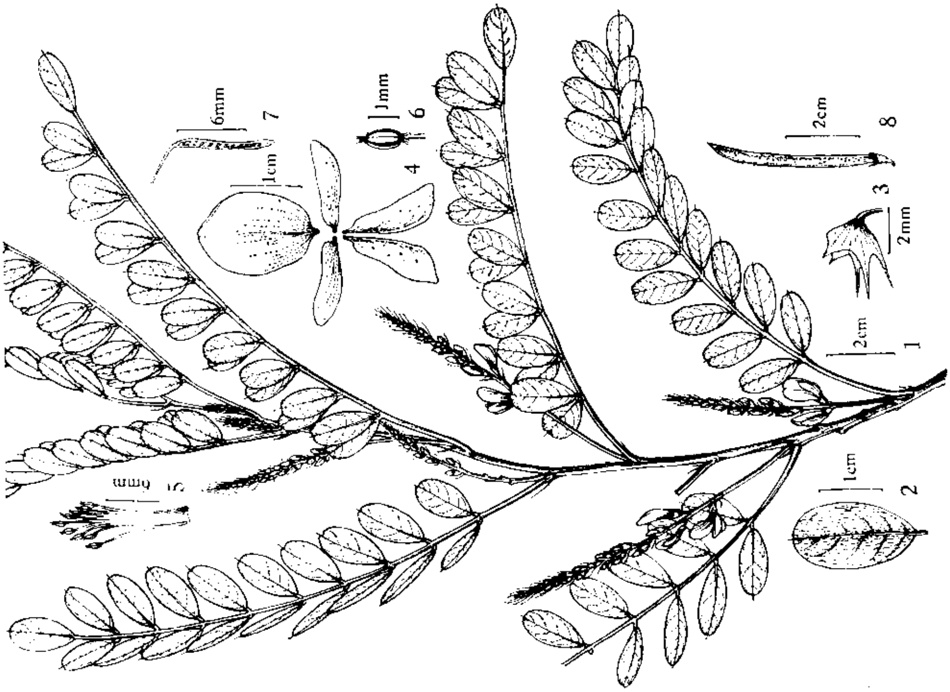


图2 **稻城木蓝** *I. daochengensis* Y. Y. Fang et C. Z. Zheng
1.花枝；2.小叶；3.花萼；4.花瓣；5.雄蕊；6.花药；7.雌蕊；8.荚果。

Species *I. galegoidi* DC. similis, sed foliolis minoribus supra glabris, floribus majoribus, antheris barbatis, leguminibus brevioribus lineari-cylindricis 4—4.5 cm long is differt.

Frutex ad 2 m altus. Rami teretiusculi, subangulati, purpurei, ferrugineo-lenticellati; ramuli conspicue sulcati, juveniles pilis albis medifixis adpressis dense tecti, demum glabrescentes. Folia 13—17(−19)-foliolata, 11—17 cm longa, petiolo 2—3.5 cm longo, complanato vel subsulcato; stipulae filiformes, 3—6 mm longae; foliola obovata, ovato-oblonga vel oblonga raro elliptica, 1.7—2.5 cm longa, 6.5—10 mm lata, apice retusa vel obtusa, apiculata, basi late cuneata vel rotundata, supra glabra, subtus praecipue ad costam pilis albis medifixis adpressis dense tecta, nervis lateralibus utrinque 5—7 obscuris. Racemi foliis breviores, ad 10 cm longi, pedunculo circ. 1.2 cm longo, angulato, pilis albis medifixis adpressis obtecto; bracteae filiformes, 3—4 mm longae. Flores densi, ad 13 mm longi; calycis tubus 1.5 mm longus, lobis deltoideis 1—1.5 mm longis, lobo infimo 2.5 mm longo, subulato; vexillum late obovato-oblongum, 12—13 mm longum, 7 mm latum, ungue 0.5 mm longo; alae oblanceolatae, 10—11 mm longae; carinae 12.5 mm longae, infra medium calcaratae; antherae ovatae ad anguste ovatae, 1—1.3 mm longae, utrinque vel apice barbatae; ovarium glabrum, circ. 13-ovulatum, stigmate pubescenti. Racemi fructiferi ad 18 cm longi; pedicelli in fructu circ. 3 mm longi. Legumina lineari-cylindrica, 4—4.5 cm longa, acuminata vel cuspidata, juventute ad utramque suturam sparsim albido-pubescentia.

Sichuan（四川）: Daocheng（稻城）, Dongyi（东义）, alt. 3400 m, ad ripam rivuli, Sichuan Veg. Exped（四川植被调查队）2313（Typus, CDBI）et 2385.

本种与假大青蓝 *I. galegoides* DC. 相似，但小叶较小，上面无毛，花较大，花药具髯毛；荚果较短，线状圆柱形，长 4—4.5 厘米，可区别。

3. **密果木蓝** 新种 图 3

Indigofera densifructa Y .Y. Fang et C. Z. Zheng, sp. nov.

Species *I. galegoidi* DC. affinis, sed floribus minoribus, infructescentiis longioribus usque ad 26 cm longis, leguminibus brevioribus, 2—3.5 cm longis differt.

Frutex ad 2 m altus. Caules teretes, albido-lenticellati, fulvo-corticati; ramuli conspicue quadrangulati, cum petiolis rhachidibus pedunculisque pilis albis brunneisque adpressis medifixis tecti. Folia 13—19-foliolata, 9—15 cm longa, petiolo 1.3—2.5 cm longo; stipulae filiformes, 3—5 mm longae; foliola ovata, oblongo-lanceolata vel lanceolata, 1.7—3.4 cm longa, 9—13 mm lata, apice obtusa vel acuta, apiculata, basi late cuneata vel rotundata, utrinque praecipue ad costam margineque subtus pilis brunneis et albis immixtis medifixis adpressis dense tecta, petiolulo 1.5—2 mm longo. Racemi axillares, densi-floriferi, foliis subaeqcilongi vel ea paulo superates, pedunculo 1—1.5 cm longo; bracteae filiformes, pedicellis subaequilongae; calycis tubus 1 mm longus, lobis deltoideis 0.5 mm longis, pilis brunneis medifixis adpressis tectis, interdum margine glandulis praeditis; vexillum late oblongum, 6 mm longum, 4 mm latum; alae oblanceolatae, 5 mm longae, 1.3 mm latae; carinae alis paulo longiores, calcare 1 mm longo; antherae late ovatae; ovarium glabrum. Infructescentiae foliis longiores usque 26 cm longae. Legumina recta, lineari-cylindrica interdum subfalcata, 2—3.5 cm longa, 6—10-sperma, inter semina constricta, brunneo-pubescentia, maturitate nigrescentia. Semina globosa, testis fuscis et nitidis.

Hunan（湖南）: Qianyang（黔阳）, Z. T. Li（李泽棠）2453（Typus, fl. SCBI）; Qianyang（黔阳）, Luoweng Shan（罗翁山）in ripis fluviorum, Z. T. Li（李泽棠）3110;

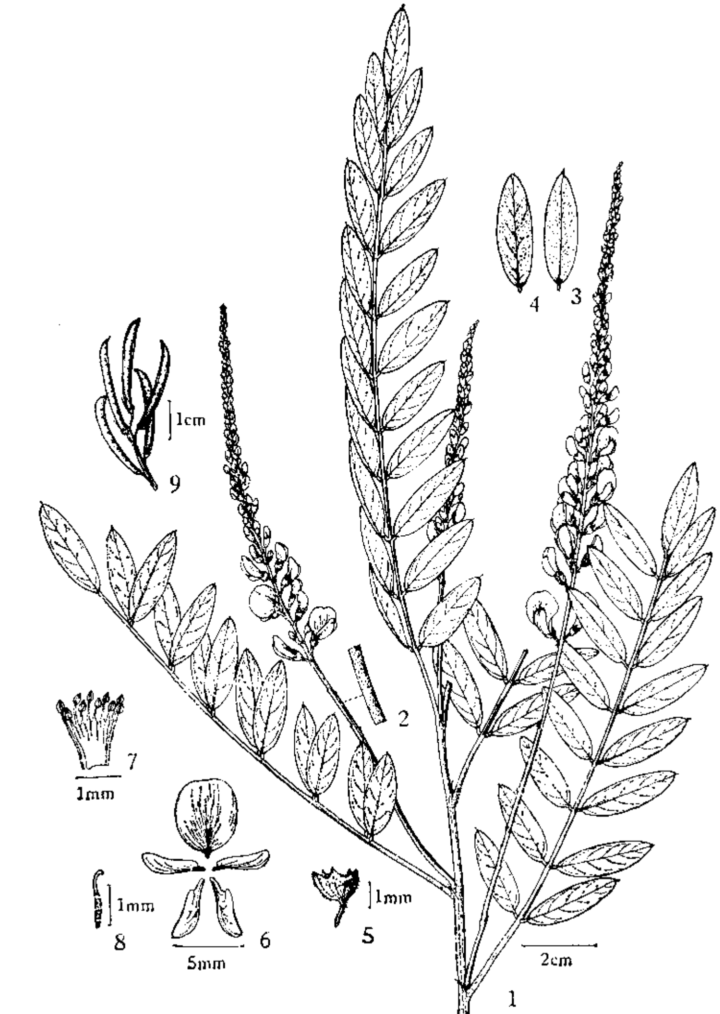


图 3 **密果木蓝** *Indigofera densifructa* Y. Y. Fang et C. Z. Zheng1.花枝;2.花序轴;3.小叶(上面);4.小叶(下面);5.花萼;6.花瓣;7.雄蕊;8.雌蕊;9.部分果枝。

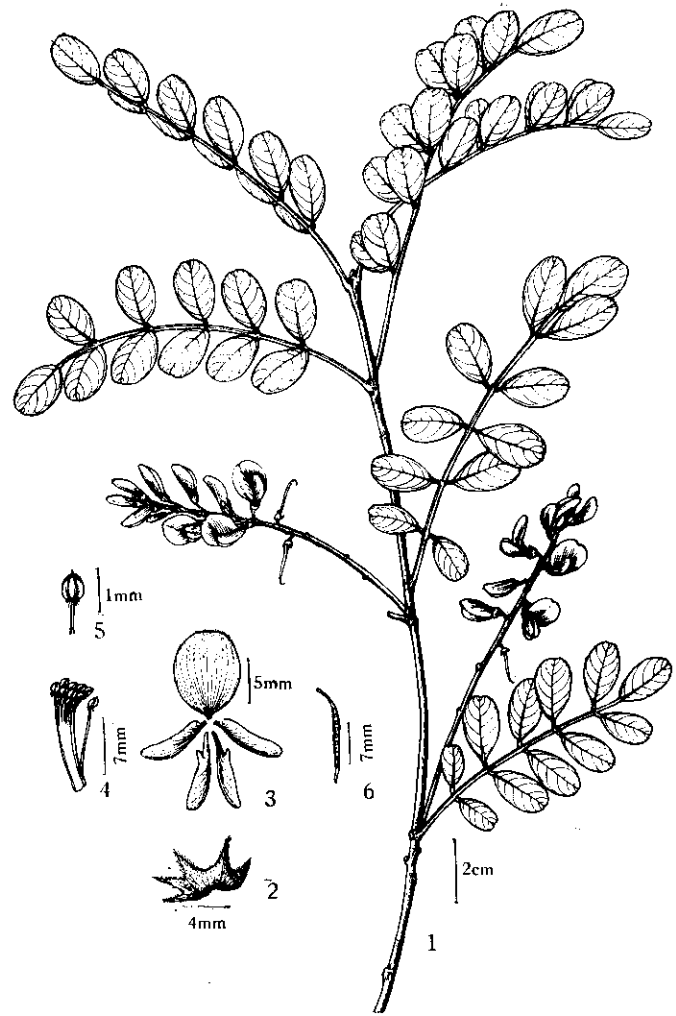


图 4 **凹叶木蓝** *I. emarginata* Y. Y. Fang et C. Z. Zheng
1.花枝; 2.花萼; 3.花瓣; 4.雄蕊; 5.花药; 6.雌蕊。

Nanyue（南岳），H. T. Chang（张宏达）3042。

Guizhou（贵州）：Kaili（凯里），alt. 700m, in dumosis collium, Z. Y. Cao（曹子余）2315。

Guangdong（广东）：Lechang（乐昌），Jiufeng（九峰），ad ripam, X. R. Liang（梁向日）et R. K. Huang（黄荣焜）31299。

Guangxi（广西）：Ziyuan（资源），Z. J. Chen（陈照宙）51831。

本种与假大青蓝 *I. galegoides* DC. 相似，但花较小，果序长达 26 厘米，荚果较短，长 2—3.5 厘米，可区别。

4. **凹叶木蓝**　新种　图 4

Indigofera emarginata Y. Y. Fang et C. Z. Zheng, sp. nov.

Species *I. cassoidi* Roell. ex DC. arcte affinis, sed lobis calycis lanceolatis, vexillo dense pubescenti, racemis 8—13(—18) cm longis, basi haud squamatis differt.

Frutex 1—2 m altus. Ramuli primo pilis medifixis adpressis albidis dense tecti, demum glabrescentes, fere teretes, ad 4 mm diam.; cortice pallide lenticellato. Folia chartacea, 9—13-foliolata, 6—13 cm longa; petiolo 1—3 cm longo ut rachi supra subcanaliculato pilis medifixis adpressis parce tecto; stipulae ovatae, 2 mm longae; foliola opposita, elliptica vel late oblonga raro obovata, 1—2.8 cm longa, 7—15 mm lata, apice obtusa vel emarginata, basi rotundata vel late cuneata, utrinque tenuiter adpresse albo-pubescentia, mox glabrescentia; nervis lateralibus utrinque 4—6 supra subconspicuis subtus obscuris; petioluli 1—1.5 mm longi; stipellae haud conspicuae. Racemi axillares, 8—13(—18) cm longi, pedunculo vulgo 1—3 cm longo, striato ut in rhachi pubescenti; pedicelli graciles, 2—2.5 mm longi; bracteae deciduae. Flores purpurei vel albi; calycis tubus 1—2 mm longus, lobis deltoideis vel lanceolatis, supremo brevi, infimo tubum subaequante, parce brunneo-pubescens; vexillum late oblongum, apice obtusum, extus dense pubescens, 7.5—10 mm longum, 5.5—7.2 mm latum; alae carinis subaequilongae; antherae ovatae vel late ovatae, basi interdum barbatae; ovarium glabrum vel ad suturam dorsalem parce pilosum, 8—9-ovulatum.

Yunnan（云南）：Deqin（德钦），alt. 3200 m, in sylvis montium, T. T. Yü（俞德浚）10074（Typus, SCBI）et 10168, 9877, 9456; C. W. Wang（王启无）67995, 69957; K. M. Feng（冯国楣）5225, 5553; Weixi（维西），alt. 3200 m, C. W. Wang（王启无）69151, 68149; alt. 2500—2600m, K. M. Feng（冯国楣）3932。

本种与椭圆叶木蓝 *I. cassiodes* Roell. ex DC. 很相似，但萼裂片披针形，旗瓣外面密被柔毛，总状花序长 8—13(—18) 厘米，基部无芽鳞，可区别。

5. **鸡公木蓝**　新种　图 5

Indigofera jikongensis Y. Y. Fang et C. Z. Zheng, sp. nov.

Ab affini *I. carlesii* Craib ramulis rhachidibus pedunculisque pilis divergentibus communiter tectis, calycis lobis deltoideis facile distincta.

Frutex ad 2—4 m altus. Radix robusta, valde rigida, 22 cm longa, 7 mm crassa. Ramuli conspicue quadrangulati, cum petiolis rhachidibus pedunculisque pilis divergentibus tecti. Folia 5—9-foliolata, 11—22 cm longa, petiolo 1.5—5.5 cm longo; stipulae lanceolatae; foliola ovata, ovato-elliptica vel obovato-elliptica, 2.8—7.5 cm longa, 1.5—4 cm lata, apice obtusa, retusa vel acuta, basi late cuneata vel rotundata, utrinque pilis albidis medifixis adpressis

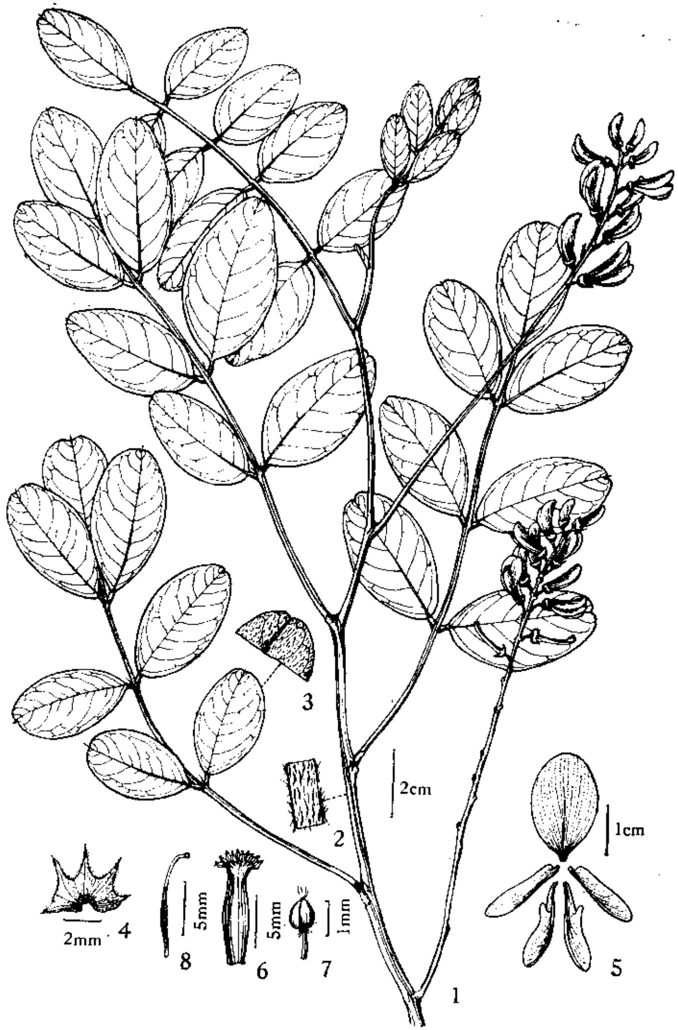


图5 **鸡公木蓝** *Indigofera jikongensis* Y. Y. Fang et C. Z. Zheng 1.花枝;2.枝(示二岐开展毛);3.小叶;4.花萼;5.花瓣;6.雄蕊;7.花药;8.雌蕊。

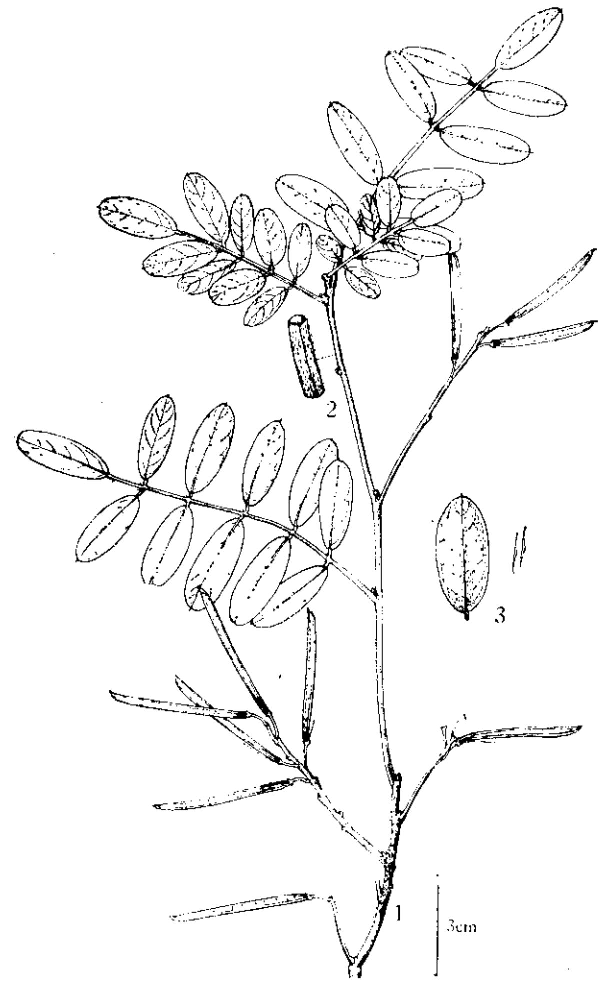


图6 **景东木蓝** *I. jindongensis* Y. Y. Fang et C. Z. Zheng 1.果枝; 2.分枝(示平贴毛); 3.小叶。

dense tecta; petiolulo 2 mm longo; stipellae filiformes, 2—4 mm longae. Racemi foliis subaequilongi vel ea paulo superantes; pedunculo 3.5—6 cm longo; pedicelli graciles, 2—3mm longi; calycis tubus 1.5—2 mm longus, lobis deltoideis, 1—1.3 mm longis, sparsim pubescens; vexillum late oblongum, 13—14 mm longum, 8 mm latum, extus dense pubescens; alae 13.5—14.5 mm longae, 4 mm latae, ad basin auriculatae; carinae aequilongae, calcare 1.5 mm longo; antherae late ovatae vel ovato-ellipticae, utrinque barbatae; ovarium glabrum, circ. 9-ovulatum.

Henan（河南）: Xinyang（信阳），Jigong Shan（鸡公山），K. J. Guan（关克俭）et L. K. Dai（戴伦凯）48（Typus, PE），Sino-Germ. Exp. 300.

本种与苏木蓝 *I. carlesii* Craib 相似，但小枝、叶轴及总花梗均被有二歧开展毛，萼裂片三角形易于区别。

6. **景东木蓝**　新种　图 6

Indigofera jindongensis Y. Y. Fang et C. Z. Zheng, sp. nov.

Ab affini *I. pampaniniana* Craib caulibus rhachidibus foliolisque pilis medifixis adpressis tectis, foliolis 9—13, leguminibus lineari-cylindricis facile distinguenda.

Frutex 60—100 cm altus. Ramuli angulati, albido-lenticellati, pilis medifixis adpressis tecti. Folia imparipinnata, 9—13-foliolata, 8.5—10.5 cm longa; petiolo 1.2—1.7 cm longo, supra plano; stipulae lanceolatae, circ. 3 mm longae, adpresse pubescentes; foliola chartacea, oblonga vel ovato-oblonga, 1.5—3.2 cm longa, 0.9—1.4 cm lata, apice rotundata apiculata, basi subrotundata raro truncata, utrinque pilis medifixis albidis adpressis tecta; nervis lateralibus utrinsecus 6—8, supra conspicuis, subtus obscuris; petiolulo 1—1.5 mm longo; stipellae parvae. Flores ignoti. Racemi fructiferi 4—7 cm longi; pedunculo 6—12 mm longo; pedicelli 2—4 mm longi. Legumina recta et acuminata, lineari-cylindrica, sparsim pubescentia, 3.5—4.5 cm longa, circ. 8-sperma. Semina oblonga, ad 3 mm longa.

Yunnan（云南）: Jingdong（景东），alt. 1300 m, in sylvis, M. K. Li（李鸣岗）1369（Typus, SCBI）.

本种与昆明木蓝 *I. pampaniniana* Craib 相似，但茎、叶轴及小叶均被平贴丁字毛，小叶 9—13；荚果线状圆柱形易于区别。

7. **长总梗木蓝**　新种　图 7

Indigofera longipednnculata Y. Y. Fang et C. Z. Zheng, sp. nov.

Species *I. parkesii* Craib affinis, sed foliolis floribusque majoribus, racemis ad 25 cm longis, pedunculis ad 7 cm longis differt.

Suffrutex ad 1 m altus. Caules teretes et flexuosi; ramuli conspicue quadrangulati, cum petiolis rhachidibus pedunculisque pilis multiseptatis crispatis plus minusve tecti. Folia 5—7(—9)-foliolata, ad 20 cm longa; petiolo 2—7 cm longo; stipulae deciduae; foliola late ovata, ovata vel elliptica, 4—7 cm longa, 2—3.7 cm lata, apice acuta vel rotundata mucronata, basi late cuneata vel rotundata, subtus praesertim ad nervos nervulosque pilis multiseptatis crispatis tecta; nervis lateralibus utrinsecus 5—6, marginem versus arcuatis, venulis subtus reticulatis valde prominentibus; stipellae filiformes, 3—5 mm longae. Racemi axillares folia paulo superantes, ad 25 cm longi; pedunculo striato vel quadrangulato ad 7 cm longo; pedicelli graciles, 2.5—4 mm longi; bracteae filiformes, 3—5 mm longae. Flores purpurei vel albi; calycis tubus 2—2.5 mm longus, lobis lateralibus late lanceolatis, lobo supremo fere del-

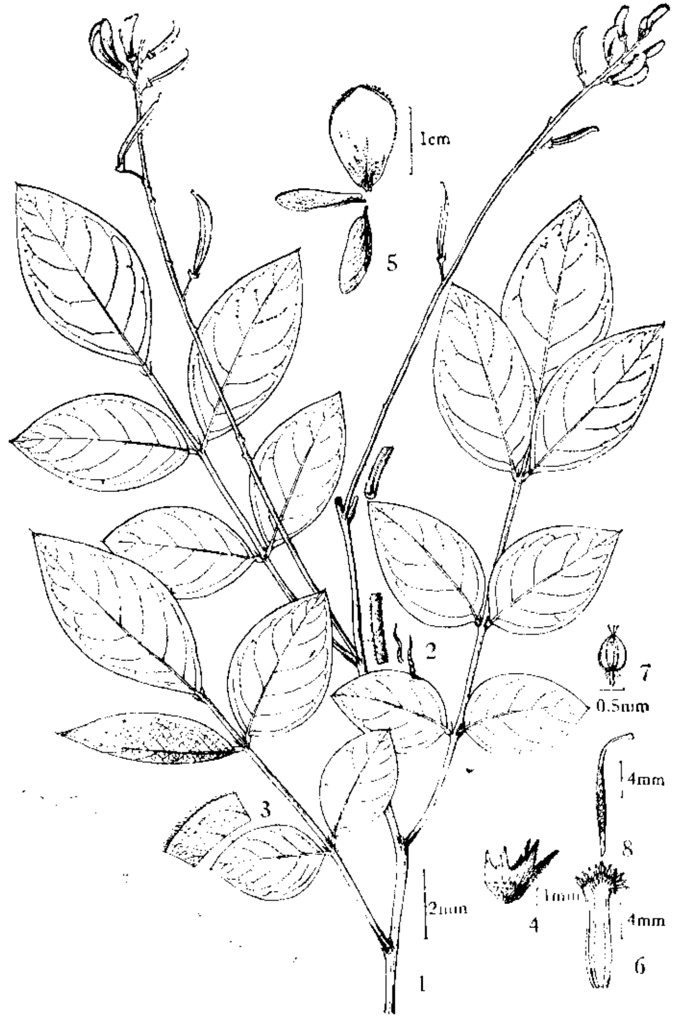


图7　长总梗木蓝 *Indigofera longipedunculata* Y. Y. Fang et C. Z. Zheng
1.花枝；2.分枝(示多节毛)；3.小叶；4.花萼；5.花瓣；6.雄蕊；7.花药；8.雌蕊。

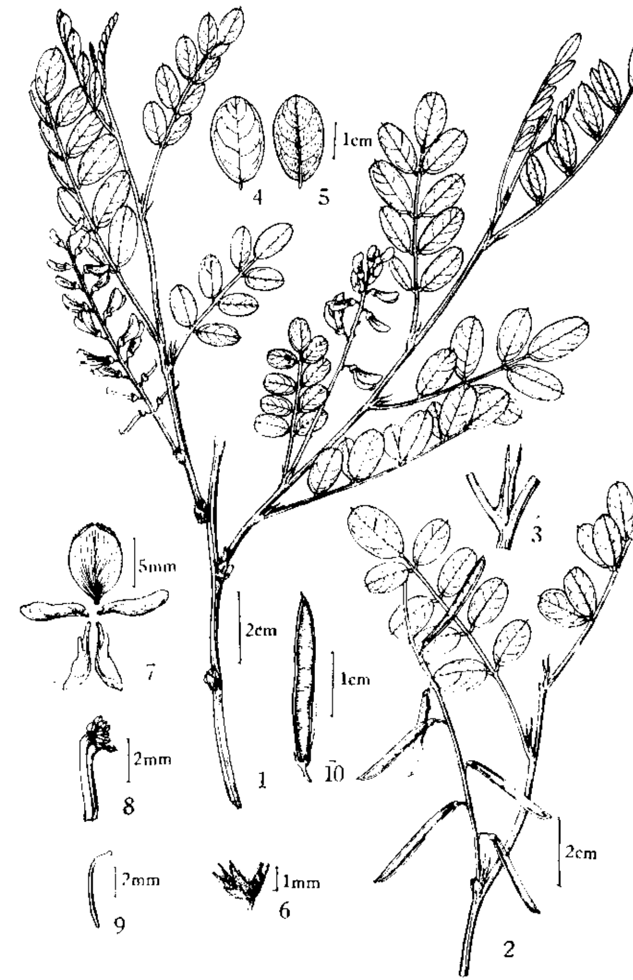


图8　木里木蓝 *I. muliensis* Y. Y. Fang et C. Z. Zheng
1.分枝；2.果枝；3.分枝及托叶；4.小叶(上面)；5.小叶(下面)；
6 花萼；7.花瓣；8.雄蕊；9.雌蕊；10.荚果。

toideo, 1 mm longo, infimo triangulosetaceo, tubo aequilongo; vexillum obovato-oblongum, 14—15 mm longum, 8—9 mm latum, extus dense pubescens; alae oblanceolato-lineares, 3.5 mm latae, ad basin auriculatae; carinae falcatae, 4 mm latae, inferne sub medium calcaratae; antherae late oblongae, utrinque barbatae; ovarium glabrum.

Zhejiang (浙江): Yin Xian (鄞县), Siming Shan (四明山), Yangtian Hu (仰天湖), alt. 1000m, in sylvis montium, C. F. Zhang (张朝芳) 38911 (Typus, HZU).

Jiangxi (江西): Lichuan (黎川), alt. 700m, ad ripam, M. X. Nie (聂敏祥) et S. S. Lai (赖书绅) 2646。

本种与浙江木蓝 *I. parkesii* Craib 相似，但小叶及花均较大，花序长达 25 厘米，总花梗长达 7 厘米为不同。

8. **木里木蓝** 新种 图 8

Indigofera muliensis Y. Y. Fang et C. Z. Zheng, sp. nov.

Species *I. monbeigii* Craib similis, sed foliolis supra et leguminibus glabris, racemis longioribus, floribus minoribus, pedicellis fructiferis ad 4 mm longis differt.

Frutex 60—100 cm altus. Caules teretes; rami glabri, lenticellis parvis albidis instructi, conspicue quadrangulati, corticibus demum caducis. Folia 5—9-foliolata, 3—7.5 cm longa, petiolo 1—2 cm longo; stipulae lanceolatae, 5—6(—10) mm longae; foliola oblonga vel ovato-oblonga, raro obovato-oblonga, 1—3 cm longa, 6—15 mm lata, apice obtusa vel acuta, apiculata, basi subrotundata vel subinaequilateralia, supra viridia, glabra, subtus pilis albis brunneisve adpressis medifixis tecta; nervis lateralibus 4—6, supra conspicuis; petiolulis circ. 1—1.5 mm longis; stipellae conspicuae, petiolulis subaequilongae. Racemi axillares, 4—8 cm longi; pedunculo 5—20 mm longo, ad basin squamis rudimentalibus persistentibus praedito. Flores purpurei; calycis tubus 1 mm longus, lobis deltoideis vel triangulo-setaceis 1—1.5 mm longis; vexillum 5.5—7.5 mm longum, 3.5—4.5 mm latum, extus dense pubescens; alae 6—7 mm longae, circ. 2 mm latae; carrmae alis aequilongae, 2.5 mm latae, in medio calcare 1.5 mm longo praeditae; antherae late ovatae et glabrae; ovarium glabrum, circ. 10-ovulatum. Legumina cylindrica, 2.2—3.3 cm longa, glabra, suturis conspicuis; pedicelli fructiferi ad 4 mm longi, omnes recurvi.

Sichuan (四川): Muli (木里), alt. 3200m, in dumetis montium, T. T. Yü (俞德浚) 6154 (Typus, KUN) et 5512, in pinetis, alt. 3200m.

Yunnan (云南): Yongning (永宁), Shize Shan, alt. 2650 m, T. T. Yü (俞德浚) 5337; Lanping (兰坪), Tangchia Wan (唐家湾), alt. 2700 m, in sylvis, T. T. Yü (俞德浚) 5405。

本种与西南木蓝 *I. monbeigii* Craib 相似，但小叶上面及荚果均无毛，总状花序较长，花较小，果梗可达 4 毫米可以区别。

9. **拟垂序木蓝** 新种 图 9

Indigofera penduloides Y. Y. Fang et C. Z. Zheng, sp. nov.

Species *I. pendulae* Franch. valde affinis, sed caulibus rhachidibus pedunculisque pilis divergentibus tectis, foliolis floribus majoribus, paginis utrinque pilis medifixis adpressis tectis, racemis longioribus differt.

Caules teretes, ad 6 mm diam., lenticellati et cano-ferrugineo-corticati, cum petiolis rha-

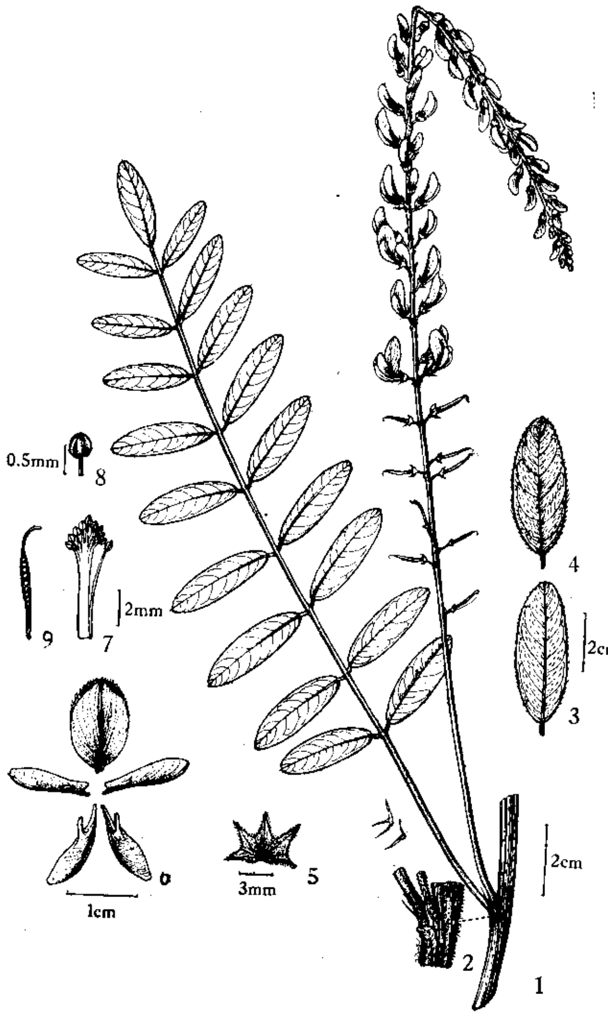


图 9 **拟垂序木蓝** *Indigofera penduloides* Y. Y. Fang et C. Z. Zheng 1.花枝；2.分枝；3.小叶（上面）；4.小叶(下面)；5.花萼；6.花瓣；7.雄蕊；8.花药；9.雌蕊。

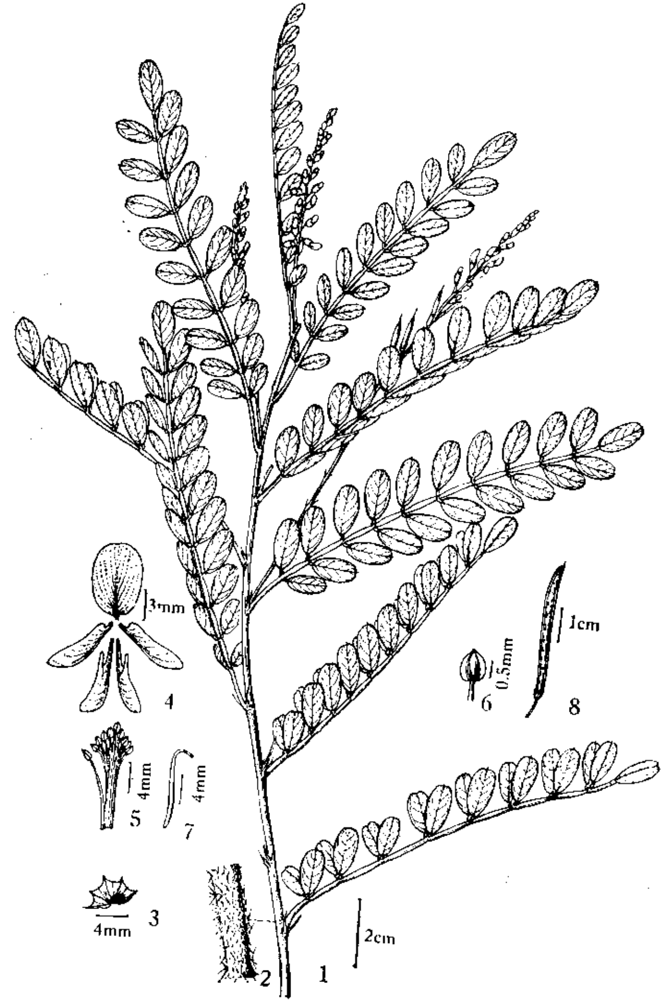


图 10 **思茅木蓝** *I. simaoensis* Y. Y. Fang et C. Z. Zheng 1.花枝； 2.分枝(示二岐开展毛)； 3.花萼； 4.花瓣； 5.雄蕊； 6.花药； 7.雌蕊； 8.荚果。

chidibus pedunculisque pilis divergentibus cinnamoneis tecti, demum glabrescentes; ramuli angulati et vurpurei. Folia 17—21-foliolata, 12—22 cm longa; petiolo supra sulcato, 2.3—5 cm longo; stipulae lineares, 3—5 mm longae; foliola ovato-oblonga vel elliptico-lanceolata, 2.5—4.3 cm longa, 8—16 mm lata, apice obtusa vel leviter retusa, apiculata, basi cuneata vel late cuneata, utrinque praecipue subtus pilis medifixis adpressis tecta; nervis lateralibus 6—8, supra conspicuis subtus obscuris; petioluli circ. 2 mm longi; stipellae inconspicuae. Racemi axillares foliis multo longiores ad 45 cm longi, pedunculo sulcato, 1.5—4 cm longo. Flores 1.2—1.3 cm longi, pedicellis 2—3 mm longis; bracteae lanceolatae, 3mm longae; calycis tubus 1.2—1.5 mm longus, lobis deltoideis vel infimo lanceolato, 1.5 mm longo; vexillum late oblongum vel obovato-oblongum, 1.2—1.3 cm longum, 6 mm latum, extus dense cinereo-pubescens; alae 1.1 cm longae, 2.5 mm latae; carinae 1.2—1.3 mm longae, 3 mm latae, in medio brevi-calcaratae; antherae oblongae, ebarbatae; ovarium glabrum, 12—13-ovulatum, stylo stigmateque pubescenti.

Yunnan (云南): Wei Shan (巍山), alt. 1700 m, in sylvis montium, Y. Tsiang (蒋英) 11800 (Typus, SCBI).

本种与垂序木蓝 *I. pendula* Franch. 很相似，但茎、叶轴及总花梗均被二歧开展毛，小叶及花较大，小叶二面被丁字毛，花序较长，可区别。

10. **思茅木蓝**　新种　图 10

Indigofera simaoensis Y. Y. Fang et C. Z. Zheng, sp. nov.

Species *I. henryi* Craib affinis, sed ramulis pedunculis pedicellisque pilis longiusculis divergentibus albidis dense tectis, densi-floriferis, lobis calycis brevi-deltoideis 0.5 mm longis, vexillo 8 mm longo differt.

Suffrutex 80—100 cm altus. Ramuli teretiusculi et sulcati, juventute pilis longiusculis divergentibus albidis dense tecti, mox glabrescentes. Folia 17—25-foliolata, ad 11 cm longa; petiolo 5—10 mm longo, complanato vel sulcato; nodo rachidis contracto quasi articulato; stipulae filiformes, 5—10 mm longae; foliola opposita, oblanceolata vel oblonga, raro obovata, 7—15 mm longa, 4—6 mm lata, apice obtusa vel rotundata, basi late cuneata vel rotundata, utrinque praecipue subtus pilis brunneis et albis immixtis medifixis adpressis tenuiter tecta; petiolulo 1.5—2 mm longo; stipellae filiformes, petiolulo subaequilongae. Racemi axillares, ad 16 cm longi, pedunculo vulgo 3 cm longo; pedicelli graciles, 3—4 mm longi, in fructu ad 5 mm longi, brunneo-pilosi; bracteae deciduae. Flores atro-purpurei; calycis tubus 1.5 mm longus, lobis brevi-deltoideis 0.5 mm longis; vexillum late oblongum, 8 mm longum, 6 mm latum; alae carinis subaequilongae; antherae ovatae, ebarbatae; ovarium glabrum. Legumina porphyrea et nitida, 3—3.5 cm longa. Semina quadrata, 2 mm longa.

Yunnan (云南): Simao, (思茅), Zhendong (镇东), Malishu (麻栎树), alt. 1400m, in sylvis humidis montium, P. Y. Mao (毛品一) 6026 (Typus, KUN); Menghai (勐海), P. Y. Mao (毛品一) 7326。

本种与长梗木蓝 *I. henryi* Craib 相似，但小枝、总花梗及花梗均密被白色二歧开展长毛，花密生，萼裂片短三角形，长 0.5 毫米，旗瓣长 8 毫米，可区别。

11. 垂序木蓝

Indigofera pendula Franch. Pl. Delav. 156 (1889)

A. **狭叶垂序木蓝**　新变种

var. **angustifolia** Y. Y. Fang et C. Z. Zheng, var. nov.

A var. *pendula* differt foliolis angustioribus oblongo-lanceolatis, 2—3 cm longis, 4—8 mm latis, supra sparse pubescentibus, stipulis linearibus, 3—4mm longis.

Yunnan (云南): Dali (大理), Malong Feng (马龙峰), H. C. Wang (王汉臣) 1011 (Typus, PE); Eryuan (洱源), Xiaoluoping (小罗坪), H. C. Wang (王汉臣) 2355。

与原种的区别在于：小叶狭，长圆状披针形，长 2—3 厘米，宽 4—8 毫米，上面疏被毛，托叶线形，长 3—4 毫米。

B. **毛垂序木蓝** 新变种

var. **pubescens** Y. Y. Fang et C. Z. Zheng, var. nov.

A var. *pendula* differt foliolis minoribus, oblongis, 6—18mm longis, 3—6mm latis, utrinque dense fulvo-pubescentibus, stipulis 2mm longis.

Sichuan (四川): Muli (木里), alt. 2800m, T. T. Yü (俞德浚)6094 (Typus, PE); Jiulong (九龙), Inst. Sylv. Sichuan. 28-0130, alt 3200m, Q. Q. Wang (王清泉) 4701。

与原变种区别在于：小叶较小，长圆形，长 6—18 毫米，宽 3—6 毫米，二面密被黄褐色毛，托叶长 2 毫米。

C. **大叶垂序木蓝** 新变种

var. **macrophylla** Y. Y. Fang et C. Z. Zheng, var. nov.

A var. *pendula* recedit foliolis floribusque majoribus, foliolis ad 3.8 cm longis, 1.8 cm latis, floribus 1.2—1.3cm longis.

Yunnan (云南): Lijian (丽江), C. W. Wang (王启无) 70619 (Typus, fl., PE)。

Sichuan (四川): Miyi (米易), alt. 2000m, S. Y. Chen (陈善墉) 10691。

与原种区别在于：小叶及花较大，小叶长达 3.8 厘米，宽 1.8 厘米，花长 1.2—1.3 厘米。

12. 浙江木蓝

Indigofera parkesii Craib in Not. Bot. Gard. Edinb. **8**: 59 (1913).

多叶浙江木蓝 新变种

var. **polyphylla** Y. Y. Fang et C. Z. Zheng, var. nov.

A var. *parkesii* differt foliolis pluribus, foliis 15—25-foliolatis, floribus albis.

Jiangxi (江西): Zixi (资溪), alt. 500m, M. X. Nie (聂敏祥) et S. S. Lai (赖书绅) 3394 (Typus, PE).

Anhui (安徽): Xiuning (休宁), C. Wang (王城) 2449。

与原种区别在于小叶较多，15—25 片，花白色。